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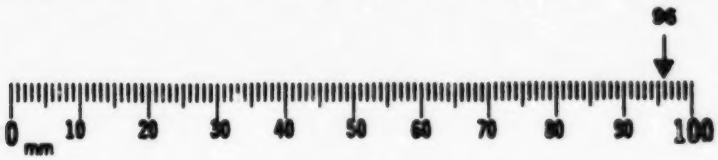

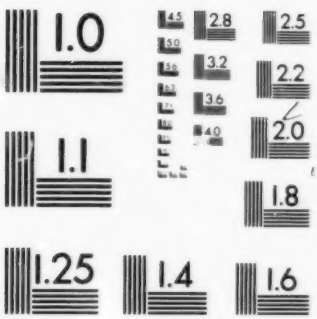

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Lake Erie
Fisheries Assessment Unit
Report 1986-3

Lake Erie Charter Boat Angler Diary Programme, 1984

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Table of Contents

	Page
Abstract	iii
Introduction	1
Methods	2
Results and Discussion	6
General Observations	6
Central Basin	8
Long Point Area	8
Inner Long Point Bay	12
Accuracy of Reported Catch/Effort Data	12
Recommendation	14
Acknowledgements	15
References	15
Appendices	16

Note: The identification of specific lures in this report is for information only and does not imply endorsement by the Ontario Ministry of Natural Resources.

ABSTRACT

In 1984, a volunteer angler diary programme with charter boat operators was conducted to obtain catch and effort data on parts of Lake Erie logistically inaccessible to conventional roving creel surveys.

Of the 34 known charter boat operators, 29 agreed to participate in the programme. Of these, 15 eventually submitted acceptable diaries representing 331 trips from three discrete fisheries: the Central Basin pacific salmon (Oncorhynchus sp) and walleye (Stizostedion vitreum vitreum) fishery, the Long Point tip area salmon fishery, and the Inner Long Point Bay smallmouth bass (Micropterus dolomieui) fishery.

Although the charter boat fishing season extended from May through September, the majority of trips were conducted in July (68% of the total) and August (18%).

Generally, the highest success rates for salmon occurred during July from 5 to 10 miles south of Erieau, from 0 to 10 miles east of Erieau, south of Port Stanley, and from 0 to 5 miles east of the tip of Long Point.

An assessment of this programme suggests that data were reported accurately and it is recommended that this cost-effective index programme be expanded in the future.

INTRODUCTION

In 1984, the Ontario Ministry of Natural Resources initiated an angler diary programme with charter boat operators to obtain catch/effort data from parts of the lake where the large territories and mobile nature of the fisheries made roving creel surveys difficult.

Angler diary programmes are considered to be a cost-effective means of monitoring fisheries particularly in examining time-series trends and corroborating information from other sources (Green, 1985).

The objectives of this programme were: 1) define the following characteristics of each fishery: catch, harvest, angling effort, success rates, and angling techniques and, 2) to evaluate the statistical reliability of the data collected by diarists.

METHODS

Charter boat operators were selected from the general angling population as they represent the most knowledgeable and skilled group of anglers on the lake. Therefore, the potential information base they represent would be of a high quality, particularly for indexing the relative abundance of fish populations supporting sport fisheries.

Personnel in Ministry of Natural Resources District offices having jurisdiction on Lake Erie, viz., Chatham, Aylmer, Simcoe and Niagara were contacted and asked to prepare lists of charter boat operators in their districts. The total number of charter boat operators identified in all districts on Lake Erie was 34. In May, all operators were contacted by telephone and asked to participate in the programme, and of these, 29 agreed.

Instructions for completing diaries were provided at the front of each diary (Appendix B.1) and diarists were requested to complete one page of the diary (Appendix B.2) for each completed fishing trip. Generalized fishing areas were reported on a standardized lakewide grid system (Figure 1).

By mid-November, all diarists were sent self-addressed, pre-stamped envelopes and asked to submit their diaries for analysis. After follow-up letters and telephone calls to delinquent diarists, a total of 15 diaries, representing a response rate of 52% had been collected.

Data from diaries were entered onto computer and analyzed by the SAS (Statistical Analysis System) package.

After diaries were photocopied, original diaries were returned to the volunteers with a personalized computer summary of the volunteer's fishing activities for the season. Summaries were similar to the pooled versions shown in Appendix A.1 and included basic catch, effort, and angling success information by area and month. An

additional incentive in the form of an attractive souvenir pocket knife or tapemeasure was provided to encourage volunteers to maintain diaries.

Although data including location, date, time fished, number of lines, and numbers of fish kept and released (Appendix B.2) was mandatory, reporting of additional information was left to individual discretion. It was considered undesirable to jeopardize the collection of critical catch/effort information by imposing too great of a demand on volunteers.

During discussions with charter operators it was decided that individual fishing summaries would be treated confidentially, available only to the person who submitted that particular diary. On the other hand, public information would represent the pooled (combined) results of all charter boat operators. In this respect, the most desired information - best fishing times and locations, would be published and available to all. Furthermore, by combining the angling success rates of all charter-operators, the pooled success rates would be more representative of relative species abundance. Also year-to-year comparisons would be more meaningful as readers would not be distracted by extreme individual values.

The programme's effectiveness as an index of relative abundance of fish populations was evaluated by comparing angler success rates from diarists with those obtained from on-water roving creel surveys. Furthermore, variation in reported angler success rates, as measured by the coefficient of variation (C.V. = $\frac{S}{\bar{x}} \times 100\%$), was considered in light of known characteristics in selected fisheries.

In assessing relative variation of success rates it is recognized that fisheries for different species, i.e., bass versus salmon, probably have characteristic coefficients of variation. (This hypothesis should be tested at the earliest opportunity.) As such,

among-areas comparisons should be restricted to individual species. However, lacking sufficient data to make within species/among areas comparisons, it was decided to assume that coefficients of variation were not different among species to roughly approximate the effect of environmental factors on variability in success rates.

The measure of the angling success rate or number of fish caught per rod-hour (CUE) used throughout this report represents all anglers regardless of the species sought and in this respect is only an approximation of individual species abundance. It was not possible to partition angling effort directed at individual species. For example, Central Basin or Long Point salmon anglers would catch coho salmon (Oncorhynchus kisutch), chinook salmon (O. tshawytscha), rainbow trout (Salmo gairdneri), yellow pickerel[1] (walleye) (Stizostedion vitreum vitreum) and freshwater drum (Aplodinotus grunniens) on the same gear while specifically fishing for salmon.

1 Yellow pickerel is the preferred common name among Ontario anglers for this species and is recognized as such by the Ontario Ministry of Natural Resources. However, the international users of this report recognize the common name walleye (Robins et al. 1980) which is the name used throughout this report.

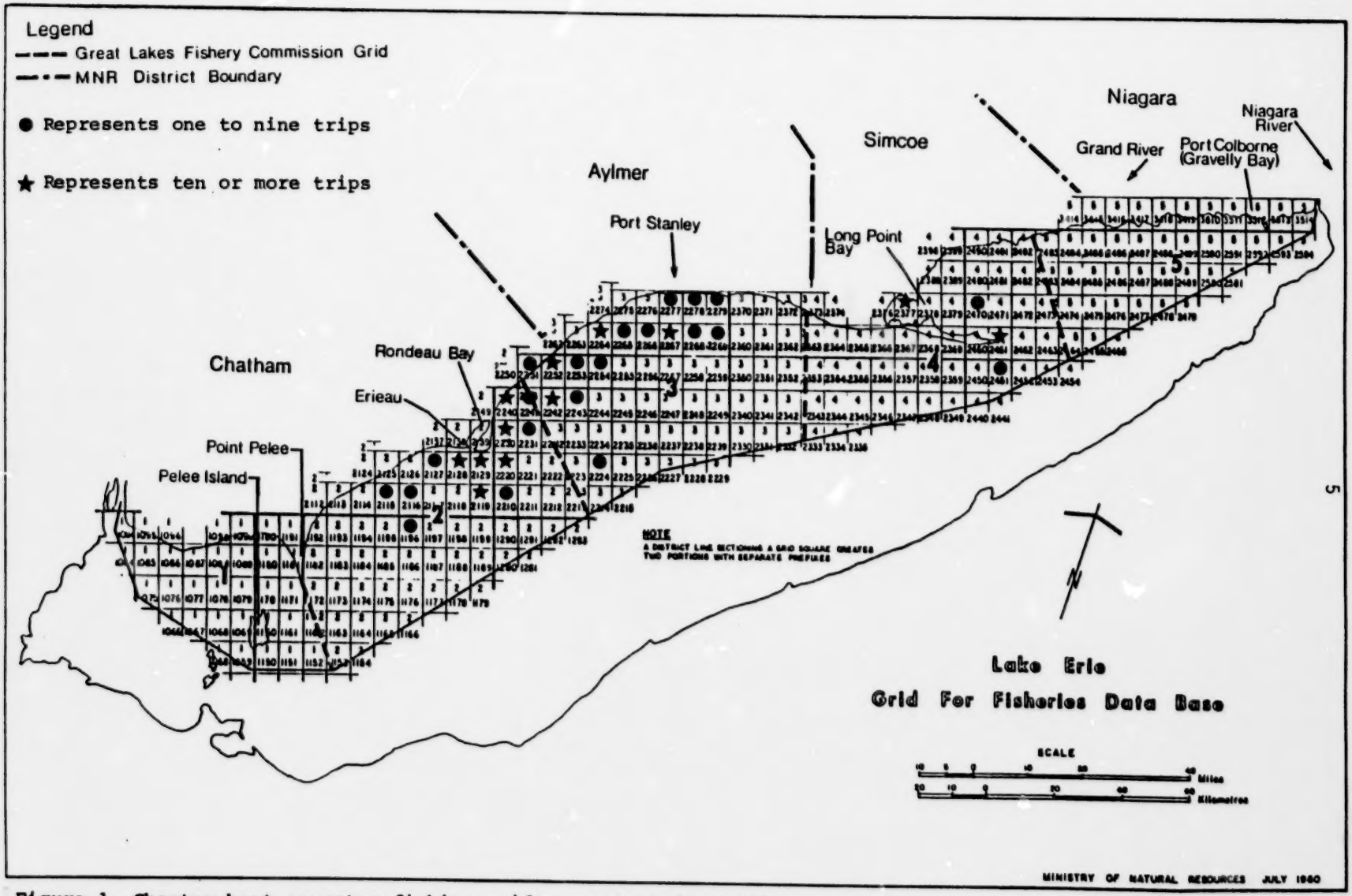

Figure 1. Charter boat operator fishing grids on Lake Erie, 1984.

RESULTS AND DISCUSSION

General Observations

Fifteen of the 29 charter boat operators who initially agreed to maintain diary records submitted acceptable diaries. This represents a response rate of 52%.

As individual diaries were treated confidentially, only pooled summaries are provided in Appendix A.1 and form the basis for discussion throughout this report.

In 1984, charter boat operators, who participated in the diary programme conducted 331 trips in three discrete areas of Lake Erie:

1) Central Basin - ten operators, representing Erieau (6), Port Stanley (3) and Port Glasgow (1) who fished mainly for salmon;
2) Long Point Area - one operator targetting on salmon; and
3) Inner Long Point Bay - four operators who fished mainly for smallmouth bass (Table 1) (Figure 1).

Although there were three known charter boat operators who fished for walleye in the Western Basin, none chose to participate in the diary programme.

According to the following, the majority (68%) of charter trips representing 73% of the total angling effort, were undertaken in July:

Month	Trips (number)	Effort (rod-hours)
May	5	45
June	38	1,331
July	224	9,336
August	59	1,873
September	5	178
Total	331	12,783

Table 1. Summary of catch and fishing effort by selected charter boat operators on Lake Erie, 1984.[1]

Area	Number of operators	Number of trips	Effort (rod-hours)	Species caught	Number caught	Number kept	Number Caught/ rod-hour
Central Basin[2]	10	236	7,927	coho salmon	1,503	1,4[illegible]	0.190
				chinook salmon	18	17	0.002
				rainbow trout	154	149	0.019
				brown trout	1	1	<0.001
				freshwater drum	164	70	0.021
				lake trout	2	2	<0.001
				walleye	466	438	0.059
Long Point[3]	1	23	493	coho salmon	259	255	0.525
				rainbow trout	2	2	0.004
				chinook salmon	1	1	0.002
				walleye	3	3	0.006
Inner Long Point Bay	4	72	4,362	smallmouth bass	2,331	1,950	0.534
				largemouth bass	1	1	<0.001
				northern pike	5	5	0.001
				rock bass	387	103	0.089
				freshwater drum	280	108	0.065
				white bass	4	4	0.001
				pumpkinseed	62	31	0.014
				yellow perch	112	95	0.026
				walleye	11	8	0.003

[1] Represents 15 of the 34 known charter boat operators on Lake Erie.

[2] Represents 6 operators fishing out of Erieau, three out of Port Stanley and one out of Port Glasgow.

[3] Represents area immediately east of the tip of Long Point.

Central Basin

Sixty-six percent of the total angling effort was expended in July and resulted in 71% of the coho salmon harvest, 52% of the rainbow trout harvest, and 51% of the walleye harvest (Table 2).

Generally, the highest success rates occurred during July for coho salmon (0.203 fish caught/rod-hour) - too few trips were conducted in May to be considered representative, and during August for rainbow trout (0.038 fish/hour) and walleye (0.101 fish/hour).

Locations with the highest success rates for coho salmon during July (where 10 or more trips were conducted) were 2119, 2230, 2240, 2252, and 2264 with the overall best location being 2119 (0.435 fish caught/rod-hour) (Table 3). Similarly, the best location during July for rainbow trout was 2119 and for walleye was 2128 (Figure 2).

Detailed information for the remaining months and locations is presented in Appendix A.1.

Central Basin charter boat operators generally fished in 18 metres of water setting their lines at an average depth of 9 metres. Green dodger/green squid combinations or green or blue spoons without dodgers usually produced the most salmon. Rainbow trout and walleye were taken on firedot manistees or J-11 fluorescent Rapalas trolled about 15 metres behind planer boards. Trolling speed was usually 4 km/h.

Long Point Area

Only one charter boat operator reported on the Long Point tip area. Between July 1 and August 25, he conducted 23 trips and expended 493 rod-hours of effort resulting in a harvest of 255 coho salmon, 2 rainbow trout, 1 chinook salmon, and 3 walleye (Table 1).

He experienced an excellent overall success rate of 0.525 coho salmon caught per rod-hour and made 78% of his trips in July fishing exclusively in grid 2461. During July, he fished at 11-14 metres in

Table 2. Monthly summaries of catch, effort and angling success by charter boat operators in the Central Basin of Lake Erie, 1984.

Month	Trips (number)	Effort (rod-hours)	Coho salmon		Rainbow trout		Walleye		Number of Coho salmon caught per rod-hour	Number of Rainbow trout caught per rod-hour	Number of walleye caught per rod-hour
			Catch (number)	Harvest (number)	Catch (number)	Harvest (number)	Catch (number)	Harvest (number)			
May	5	45	25	24	0	0	1	1	0.562	0.000	0.022
June	33	1,037	36	36	3	2	30	30	0.035	0.003	0.029
July	147	5,242	1,063	1,032	79	77	244	223	0.203	0.015	0.047
August	48	1,531	375	365	71	70	190	183	0.200	0.038	0.101
September	3	72	4	4	0	0	1	1	0.056	0.000	0.014
Total	236	7,927	1,503	1,461	153	149	466	438	0.190	0.019	0.059

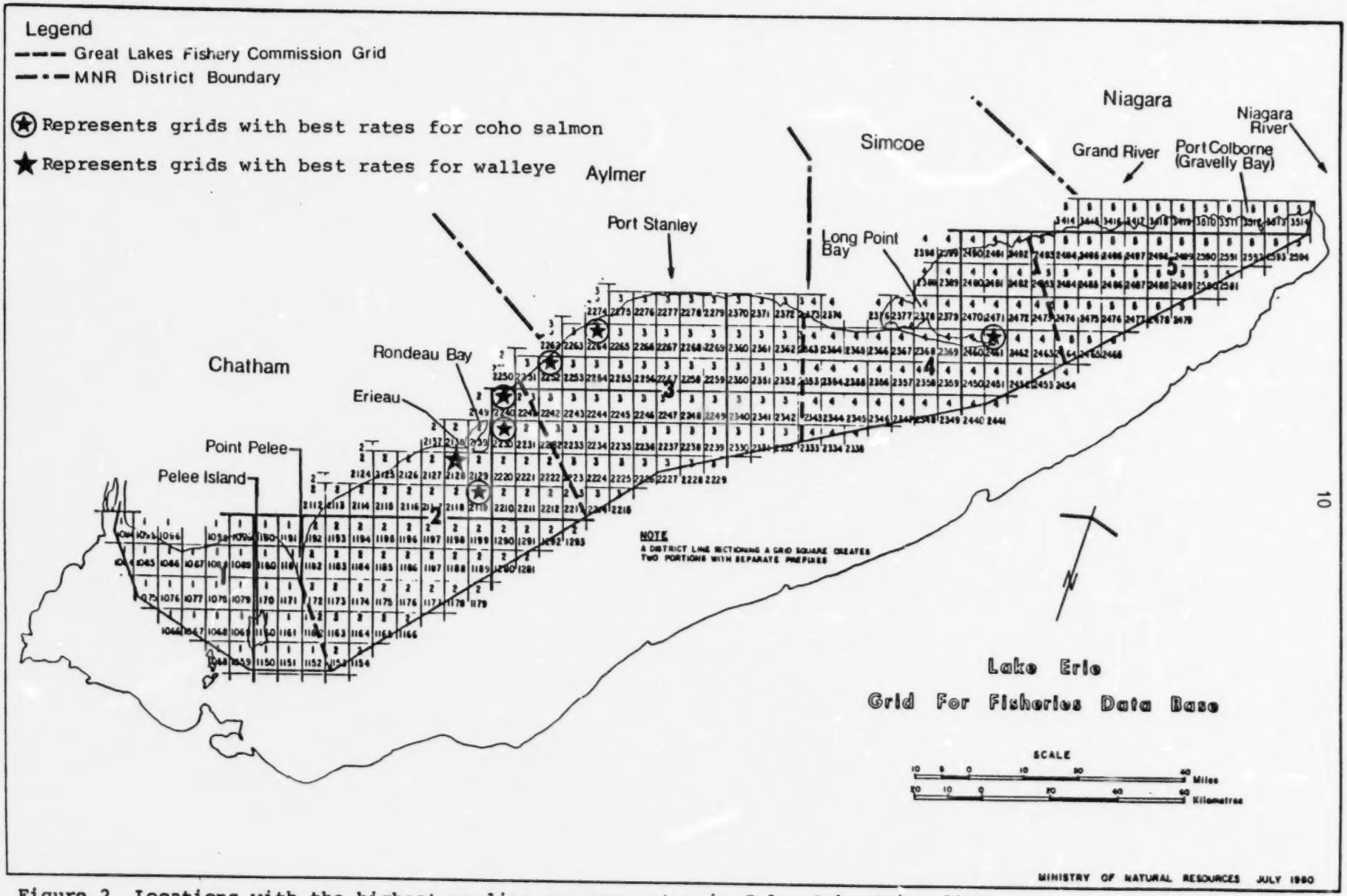

Figure 2. Locations with the highest angling success rates in July, Lake Erie, 1984.

Table 3. Grid summaries of catch, effort and angling success by charter boat operators in the Central Basin of Lake Erie during July, 1984.

Grid	Trips (number)	Effort (rod-hours)	Coho salmon		Rainbow trout		Walleye		Number of Coho salmon caught per rod-hour	Number of Rainbow trout caught per rod-hour	Number of walleye caught per rod-hour
			Catch (number)	Harvest (number)	Catch (number)	Harvest (number)	Catch (number)	Harvest (number)			
1196	1	24	1	1	0	0	3	3	0.042	0.000	0.125
2116	1	14	0	0	0	0	4	3	0.000	0.000	0.286
2119	12	255	110	105	19	19	0	0	0.435	0.075	0.000
2127	3	122	1	1	0	0	10	10	0.008	0.000	0.082
2128	10	385	28	19	3	3	50	40	0.073	0.008	0.130
2129	6	286	48	48	2	2	8	8	0.168	0.007	0.028
2210	1	13	0	0	0	0	2	0	0.000	0.000	0.154
2220	3	97	35	35	0	0	0	0	0.361	0.000	0.000
2224	4	196	21	21	1	1	30	25	0.107	0.005	0.153
2230	26	747	179	170	18	16	20	20	0.240	0.024	0.027
2231	2	84	18	18	0	0	3	3	0.214	0.000	0.036
2240	15	402	124	121	10	10	6	6	0.308	0.025	0.015
2241	5	179	32	32	11	11	10	8	0.179	0.061	0.056
2242	1	72	10	10	0	0	0	0	0.139	0.000	0.000
2251	1	42	6	6	2	2	3	3	0.143	0.048	0.071
2252	13	579	182	177	3	3	17	17	0.315	0.005	0.029
2253	4	152	28	28	0	0	1	1	0.185	0.000	0.007
2254	1	60	5	5	1	1	8	8	0.083	0.017	0.133
2262	1	40	3	3	1	1	2	2	0.075	0.025	0.050
2264	13	561	162	162	4	4	32	32	0.289	0.007	0.057
2265	6	202	24	24	3	3	3	2	0.119	0.013	0.015
2266	2	72	6	6	0	0	3	3	0.083	0.000	0.042
2267	6	305	14	14	0	0	12	12	0.046	0.000	0.039
2268	3	114	12	12	0	0	3	3	0.105	0.000	0.026
2269	1	24	5	5	0	0	0	0	0.208	0.000	0.000
2277	4	174	9	9	1	1	9	9	0.052	0.006	0.052
2278	1	16	0	0	0	0	0	0	0.000	0.000	0.000
2279	1	30	0	0	0	0	5	5	0.000	0.000	0.167
Total	147	5,242	1,063	1,032	79	77	244	223	0.203	0.015	0.047

46-52 metres of water; during August fishing depth increased to 17-20 metres in 55 metres of water

Various combinations of flys and spoons, flys/dodgers were used, with black/red, black/chartreuse, green/green, and black/silver combinations all producing salmon and the occasional walleye.

Inner Long Point Bay

During July and August, four charter boat operators conducted 72 trips and expended 4,362 rod-hours of angling effort (Table 1) mainly in pursuit of smallmouth bass.

Their overall success rate for smallmouth bass was 0.534 fish caught per rod-hour.

The harvest comprised 1,950 smallmouth bass, 103 rock bass (Ambloplites rupestris), 108 freshwater drum, 95 yellow perch (Perca flavescens) and lesser numbers of other species (Table 1).

Accuracy of Reported Catch/Effort Data

In comparison to roving creel surveys, volunteer surveys usually produce positively biased success rates due to the increased likelihood of the ardent and more successful anglers reporting their trips. An additional positive bias would be expected from using data from professional charter boat operators who, for competitive business reasons, must stay informed about current developments in fishing technology and status-quo field conditions in the fishery. However, if it could be reasonably assumed that voluntary information was being reported accurately, then indices of relative abundance of fish populations, (angler success rates - number caught per rod-hour) derived from similar statistical populations, i.e., charter boat operators, would be an additional useful tool to managers trying to

interpret year-to-year variations in fish populations.

The close association (narrow range) of angler success rates derived from reported catch/effort data seems to indicate that survey participants were accurately reporting their fishing trips (Appendix C.1). In considering this small variation, it is important to keep in mind that: 1) charter boat operators were approached individually to participate in the survey and, 2) they are competitive business people who agreed to participate only if individual data was kept confidential. Both of these factors discount the possibility that charter boat operators collaborated on diary results.

In assessing the relative variations of success rates (see caveat para. 4, pages 3 & 4), the larger variation (C.V.=37%) in the Central Basin compared to Inner Long Point Bay (12%) is probably due to the vastly larger area and more variable environmental conditions found in the Central Basin. The largest variation (C.V.=76%) occurred in the Central Basin walleye fishery which was in the initial stages of development and charter boat operators were starting to opportunistically take this species while fishing for salmon.

Lastly, the smallmouth bass success rate of Inner Long Point Bay charter boat operators (0.549 fish caught/rod-hour) (Appendix C.1) was 1.9 times greater than the general angling population (0.286 fish caught/rod-hour) (Appendix C.2). Again, this is consistent with the concept of professional charter boat operators being more aware of general angling trends and "hotspots" to produce fish for their customers.

In summary, it would appear that the required catch/effort information was accurately reported by charter boat operators. The differences in success rates for smallmouth bass between charter boat operators and the general angling population at Inner Long Point Bay

and the relative variation of success rates among fisheries are consistent with known characteristics of the respective fisheries.

RECOMMENDATION

The Angler Diary Programme should be expanded to increase the sample size and representativeness of the data.

Efforts should be made to enlist additional charter boat operators, while simultaneously enlisting volunteers from angling clubs and individual anglers.

This is an inexpensive means to index fish populations supporting sport fisheries on a lakewide basis and provides for an information network with anglers reporting on current developments in the fisheries.

ACKNOWLEDGEMENTS

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Green, D.M. 1985. A partnership for bass management. The Conservationist. July - August, 1985. State of New York, Department of Environmental Conservation.

LEFAU. 1984. Unpublished computer analyses of 1984 angler diaries and roving creel surveys. Ontario Ministry of Natural Resources. Lake Erie Fisheries Assessment Unit. Wheatley, Ontario.

Appendix A.1 Explanatory notes concerning the computer summaries which follow.

1. The following grids were erroneously coded:

   a) 2130 - This grid does not exist and the trip information should be appended to grid 2230.
   b) 2237 - This grid should have been coded 2377 and the trip information appended to grid 2377.
   c) 2477 - This grid should have been coded 2377 and the trip information appended to grid 2377.

2. POOLED means combined. For example, pooled in the GRID column means that all grids were combined to produce the results in the particular species' row.

3. OBS represents observation number. It is included only for reference and is not part of the catch/effort output.

4. GRID represents a four-digit code which indicates the general fishing area reported on the reference map in Figure 1.

5. SPECIES represents the fish which were caught and/or kept. Yellow pickerel is referred to as walleye (Stizostedion vitreum vitreum) throughout the report.

6. NUMBER OF TRIPS represents the number of trips undertaken in a particular grid. As it was not possible to partition the number of trips which were directed at particular species, the number of trips which are attributed to a particular species in the output are essentially a repetition of the total number of trips reported in the grid where that species was caught.

7. EFFORT represents angling effort and is derived by multiplying the number of lines that were in the water by the actual fishing time. Travel time during the fishing trip is not included in the effort. The comment in (6) above concerning partitioning of trips also applies to effort.

8. RODS PER TRIP represents the mean number of rods (lines) which were fished per trip in a given area. The comment in (6) above concerning partitioning of trips also applies to rods per trip.

9. CAUGHT/KEPT PER ROD-HOUR is the measure of angling success rate and represents the number of fish which were caught/kept per rod-hour of angling effort.

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

NAME=POOLED MONTH=POOLED

USE	GRID	SPECIES	NUMBER CAUGHT	NUMBER KEPT	NUMBER OF TRIPS	EFFORT (ROD-HOURS)	RODS PER TRIP	CAUGHT PER ROD-HOUR	KEPT PER ROD-HOUR	ROD-HOURS PER FISH CAUGHT
1	POOLED	POOLED	5850	4772	331	12782	5.8	0.458	0.373	2
2	POOLED	BROWN TROUT	1	1	331	12782	5.8	0.000	0.000	12782
3	POOLED	CHINOOK	19	18	331	12782	5.8	0.001	0.001	673
4	POOLED	COHO SALMON	1762	1716	331	12782	5.8	0.138	0.134	7
5	POOLED	FRESHWATER DRUM	444	178	331	12782	5.8	0.035	0.014	29
6	POOLED	LAKE TROUT	2	2	331	12782	5.8	0.000	0.000	6391
7	POOLED	LARGEMOUTH BASS	1	1	331	12782	5.8	0.000	0.000	12782
8	POOLED	NORTHERN PIKE	5	5	331	12782	5.8	0.000	0.000	2556
9	POOLED	PUMPKINSEED	62	31	331	12782	5.8	0.005	0.002	206
10	POOLED	RAINBOW TROUT	155	151	331	12782	5.8	0.012	0.012	82
11	POOLED	ROCK BASS	387	143	331	12782	5.8	0.030	0.008	33
12	POOLED	SMALLMOUTH BASS	2331	1950	331	12782	5.8	0.182	0.153	5
13	POOLED	WHITE BASS	89	72	331	12782	5.8	0.007	0.006	144
14	POOLED	YELLOW PERCH	112	95	331	12782	5.8	0.009	0.007	114
15	POOLED	YELLOW PICKEREL	480	449	331	12782	5.8	0.038	0.035	27
16	1196	POOLED	4	4	1	24	3.0	0.167	0.167	6
17	1196	COHO SALMON	1	1	1	24	3.0	0.042	0.042	24
18	1196	YELLOW PICKEREL	3	3	1	24	3.0	0.125	0.125	8
19	2115	POOLED	4	3	1	26	4.0	0.154	0.115	7
20	2115	RAINBOW TROUT	1	0	1	26	4.0	0.038	0.000	26
21	2115	YELLOW PICKEREL	3	3	1	26	4.0	0.115	0.115	9
22	2116	POOLED	22	11	1	14	2.0	1.429	0.786	1
23	2116	FRESHWATER DRUM	16	8	1	14	2.0	1.143	0.571	1
24	2116	YELLOW PICKEREL	4	3	1	14	2.0	0.286	0.214	4
25	2117	POOLED	138	133	13	281	3.5	0.491	0.473	2
26	2117	COHO SALMON	116	111	13	281	3.5	0.413	0.395	2
27	2117	RAINBOW TROUT	22	22	13	281	3.5	0.078	0.078	13
28	2127	POOLED	56	35	3	122	5.3	0.459	0.295	2
29	2127	CHINOOK	1	1	3	122	5.3	0.009	0.008	122
30	2127	COHO SALMON	1	1	3	122	5.3	0.008	0.008	122
31	2127	FRESHWATER DRUM	20	10	3	122	5.3	0.164	0.082	6
32	2127	WHITE BASS	24	14	3	122	5.3	0.197	0.115	5
33	2127	YELLOW PICKEREL	10	10	3	122	5.3	0.082	0.082	12
34	2128	POOLED	101	70	14	476	4.7	0.212	0.147	5
35	2128	CHINOOK	0	0	14	476	4.7	0.000	0.000	*
36	2128	COHO SALMON	29	20	14	476	4.7	0.061	0.042	16
37	2128	FRESHWATER DRUM	10	7	14	476	4.7	0.021	0.000	48
38	2128	RAINBOW TROUT	3	3	14	476	4.7	0.006	0.006	159
39	2128	WHITE BASS	2	0	14	476	4.7	0.004	0.000	238
40	2128	YELLOW PICKEREL	57	47	14	476	4.7	0.120	0.099	8
41	2129	POOLED	105	95	16	478	5.1	0.222	0.199	5
42	2129	CHINOOK	1	0	16	478	5.1	0.002	0.000	478
43	2129	COHO SALMON	83	82	16	478	5.1	0.174	0.171	6
44	2129	FRESHWATER DRUM	7	0	16	478	5.1	0.015	0.000	68
45	2129	RAINBOW TROUT	3	3	16	478	5.1	0.006	0.006	159
46	2129	WHITE BASS	2	0	16	478	5.1	0.004	0.000	239
47	2129	YELLOW PICKEREL	10	10	16	478	5.1	0.021	0.021	48
48	2130	POOLED	16	16	1	28	4.0	0.571	0.571	2
49	2130	COHO SALMON	13	13	1	28	4.0	0.464	0.464	2
50	213	RAINBOW TROUT	3	3	1	28	4.0	0.107	0.107	9
51	2210	POOLED	3	1	2	37	3.0	0.081	0.027	12
52	2210	CHINOOK	1	1	2	37	3.0	0.027	0.027	37

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

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53	2210	YELLOW PICKEREL	2	0	2	37	3.0	0.054	0.000	19
54	2220	POOLED	143	139	12	342	4.4	0.418	0.406	2
55	2220	CHINOOK	1	1	12	342	4.4	0.003	0.003	342
56	2220	COHO SALMON	105	105	12	342	4.4	0.307	0.307	3
57	2220	FRESHWATER DRUM	4	0	12	342	4.4	0.012	0.000	86
58	2220	RAINBOW TROUT	31	31	12	342	4.4	0.091	0.091	11
59	2220	YELLOW PICKEREL	2	2	12	342	4.4	0.006	0.006	171
6	2224	POOLED	66	59	4	196	7.0	0.337	0.301	3
61	2224	COHO SALMON	21	21	4	196	7.0	0.107	0.107	9
62	2224	FRESHWATER DRUM	6	4	4	196	7.0	0.031	0.020	33
63	2224	RAINBOW TROUT	1	1	4	196	7.0	0.005	0.005	196
64	2224	WHITE BASS	8	3	4	196	7.0	0.041	0.041	25
65	2224	YELLOW PICKEREL	30	25	4	196	7.0	0.153	0.128	7
66	2230	POOLED	411	391	46	1292	4.4	0.318	0.295	3
67	2230	CHINOOK	5	5	46	1292	4.4	0.004	0.004	258
68	2230	COHO SALMON	320	307	46	1292	4.4	0.248	0.238	4
69	2230	FRESHWATER DRUM	16	2	46	1292	4.4	0.012	0.002	81
70	2230	RAINBOW TROUT	39	36	46	1292	4.4	0.030	0.028	33
71	2230	WHITE BASS	2	2	46	1292	4.4	0.002	0.002	646
72	2230	YELLOW PICKEREL	29	29	46	1292	4.4	0.022	0.022	45
73	2231	POOLED	38	38	3	132	6.0	0.288	0.288	3
74	2231	COHO SALMON	33	33	3	132	6.0	0.250	0.250	4
75	2231	YELLOW PICKEREL	5	5	3	132	6.0	0.038	0.038	26
76	2237	POOLED	391	325	7	410	9.0	0.955	0.794	1
77	2237	FRESHWATER DRUM	76	38	7	410	9.0	0.186	0.093	5
78	2237	NORTHERN PIKE	1	1	7	410	9.0	0.002	0.002	410
79	2237	PUMPKINSEED	12	6	7	410	9.0	0.029	0.015	34
8.	2237	ROCK BASS	45	25	7	410	9.0	0.110	0.061	9
81	2237	SMALLMOUTH BASS	203	201	7	410	9.0	0.496	0.491	2
82	2237	YELLOW PERCH	54	54	7	410	9.0	0.132	0.132	8
83	2240	POOLED	142	139	15	402	3.9	0.353	0.346	3
84	2240	CHINOOK	2	2	15	402	3.9	0.005	0.005	201
85	2240	COHO SALMON	124	121	15	402	3.9	0.308	0.301	3
86	2240	RAINBOW TROUT	10	10	15	402	3.9	0.025	0.025	40
87	2240	YELLOW PICKEREL	6	6	15	402	3.9	0.015	0.015	67
88	2241	POOLED	112	89	7	225	5.9	0.499	0.396	2
89	2241	CHINOOK	1	1	7	225	5.9	0.004	0.004	225
9.	2241	COHO SALMON	38	38	7	225	5.9	0.169	0.169	6
91	2241	FRESHWATER DRUM	36	18	7	225	5.9	0.160	0.080	6
92	2241	RAINBOW TROUT	11	11	7	225	5.9	0.049	0.049	20
93	2241	WHITE BASS	9	6	7	225	5.9	0.040	0.027	25
94	2241	YELLOW PICKEREL	17	15	7	225	5.9	0.076	0.067	13
95	2242	POOLED	111	109	10	371	6.4	0.299	0.294	3
96	2242	CHINOOK	2	2	10	371	6.4	0.005	0.005	186
97	2242	COHO SALMON	39	37	10	371	6.4	0.105	0.100	10
98	2242	FRESHWATER DRUM	3	3	10	371	6.4	0.008	0.008	124
99	2242	RAINBOW TROUT	4	4	10	371	6.4	0.011	0.011	93
100	2242	WHITE BASS	13	13	10	371	6.4	0.035	0.035	29
101	2242	YELLOW PICKEREL	50	50	10	371	6.4	0.135	0.135	7
102	2243	POOLED	10	10	2	160	8.0	0.063	0.063	16
103	2243	CHINOOK	0	0	2	160	8.0	0.000	0.000	.
104	2243	COHO SALMON	5	5	2	160	8.0	0.031	0.031	32

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

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1 5	2243	YELLOW PICKEREL	5	5	2	160	8.0	0.031	0.031	32
1 6	2251	POOLED	35	23	1	42	6.0	0.833	0.548	1
1 7	2251	COHO SALMON	6	5	1	42	6.0	0.143	0.143	7
1 9	2251	FRESHWATER DRUM	24	12	1	42	6.0	0.571	0.286	2
1 0	2251	RAINBOW TROUT	2	2	1	42	6.0	0.048	0.048	21
11	2251	YELLOW PICKEREL	3	3	1	42	6.0	0.071	0.071	14
111	2252	POOLED	457	441	27	1209	6.7	0.378	0.365	3
112	2252	CHINOOK	1	1	27	1209	6.7	0.001	0.001	1209
113	2252	COHO SALMON	286	277	27	1209	6.7	0.237	0.229	4
114	2252	LAKE TROUT	1	1	27	1209	6.7	0.001	0.001	1209
115	2252	RAINBOW TROUT	12	12	27	1209	6.7	0.010	0.010	101
116	2252	WHITE BASS	10	10	27	1209	6.7	0.008	0.008	121
117	2252	YELLOW PICKEREL	147	141	27	1209	6.7	0.122	0.116	8
118	2253	POOLED	37	37	5	162	6.4	0.229	0.229	4
119	2253	CHINOOK	2	2	5	162	6.4	0.012	0.012	81
120	2253	COHO SALMON	29	29	5	162	6.4	0.180	0.180	6
121	2253	FRESHWATER DRUM	1	1	5	162	6.4	0.006	0.006	162
122	2253	WHITE BASS	4	4	5	162	6.4	0.025	0.025	40
123	2253	YELLOW PICKEREL	1	1	5	162	6.4	0.006	0.006	162
124	2254	POOLED	14	14	1	60	8.0	0.233	0.233	4
125	2254	COHO SALMON	5	5	1	60	8.0	0.083	0.083	12
126	2254	RAINBOW TROUT	1	1	1	60	8.0	0.017	0.017	60
127	2254	YELLOW PICKEREL	8	8	1	60	8.0	0.133	0.133	8
128	2262	POOLED	22	14	1	40	5.0	0.550	0.350	2
129	2262	COHO SALMON	3	3	1	40	5.0	0.075	0.075	13
130	2262	FRESHWATER DRUM	15	8	1	40	5.0	0.400	0.200	3
131	2262	RAINBOW TROUT	1	1	1	40	5.0	0.025	0.025	40
132	2262	YELLOW PICKEREL	2	2	1	40	5.0	0.050	0.050	20
133	2264	POOLED	210	202	14	593	6.6	0.354	0.353	3
134	2264	COHO SALMON	165	165	14	593	6.6	0.278	0.278	4
135	2264	FRESHWATER DRUM	2	1	14	593	6.6	0.003	0.002	296
136	2264	LAKE TROUT	1	1	14	593	6.6	0.002	0.002	593
137	2264	RAINBOW TROUT	4	4	14	593	6.6	0.007	0.007	148
138	2264	WHITE BASS	6	6	14	593	6.6	0.010	0.010	99
139	2264	YELLOW PICKEREL	32	32	14	593	6.6	0.054	0.054	19
14.	2265	POOLED	3	29	7	211	5.0	0.142	0.137	7
141	2265	CHINOOK	0	0	7	211	5.0	0.000	0.000	.
142	2265	COHO SALMON	24	24	7	211	5.0	0.114	0.114	9
143	2265	RAINBOW TROUT	3	3	7	211	5.0	0.014	0.014	70
144	2265	YELLOW PICKEREL	3	2	7	211	5.0	0.014	0.009	70
145	2265	POOLED	11	11	4	93	4.0	0.118	0.118	8
146	2265	COHO SALMON	8	8	4	93	4.0	0.086	0.086	12
147	2265	YELLOW PICKEREL	3	3	4	93	4.0	0.032	0.032	31
148	2267	POOLED	34	34	10	433	6.1	0.079	0.079	13
149	2267	COHO SALMON	10	10	10	433	6.1	0.044	0.044	23
15.	2267	RAINBOW TROUT	1	1	10	433	6.1	0.002	0.002	433
151	2267	YELLOW PICKEREL	14	14	10	433	6.1	0.032	0.032	31
152	2261	POOLED	23	23	7	228	5.4	0.101	0.101	10
153	2261	CHINOOK	1	1	7	228	5.4	0.004	0.004	228
154	2261	COHO SALMON	15	15	7	228	5.4	0.066	0.066	15
155	2261	WHITE BASS	1	1	7	228	5.4	0.004	0.004	228
156	2261	YELLOW PICKEREL	6	6	7	228	5.4	0.026	0.026	38

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

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157	2251	POOLED	5	5	1	24	4.0	0.208	0.208	5
158	2253	COHO SALMON	5	5	1	24	4.0	0.208	0.208	5
159	2277	POOLED	21	21	5	182	5.2	0.115	0.115	9
16	2277	BROWN TROUT	1	1	5	182	5.2	0.005	0.005	182
161	2277	COHO SALMON	1	1	5	182	5.2	0.055	0.055	18
162	2277	RAINBOW TROUT	1	1	5	182	5.2	0.005	0.005	182
163	2277	YELLOW PICKEREL	9	9	5	182	5.2	0.049	0.049	20
164	2278	POOLED	4	4	1	16	4.0	0.250	0.250	4
165	2278	FRESHWATER DRUM	1	1	1	16	4.0	0.063	0.063	16
166	2278	WHITE BASS	3	3	1	16	4.0	0.188	0.188	5
167	2279	POOLED	8	8	1	30	5.0	0.267	0.267	4
168	2279	FRESHWATER DRUM	2	2	1	30	5.0	0.067	0.067	15
169	2279	WHITE BASS	1	1	1	30	5.0	0.033	0.033	30
17	2279	YELLOW PICKEREL	5	5	1	30	5.0	0.167	0.167	6
171	2377	POOLED	2636	1372	52	3837	8.8	0.700	0.488	1
172	2377	FRESHWATER DRUM	192	64	52	3837	8.8	0.050	0.017	20
173	2377	LARGEMOUTH BASS	1	1	52	3837	8.8	0.000	0.000	3837
174	2377	NORTHERN PIKE	4	4	52	3837	8.8	0.001	0.001	959
175	2377	PUMPKINSEED	50	25	52	3837	8.8	0.013	0.007	77
176	2377	ROCK BASS	342	78	52	3837	8.8	0.089	0.020	11
177	2377	SMALLMOUTH BASS	2049	1672	52	3837	8.8	0.534	0.436	2
178	2377	WHITE BASS	4	4	52	3837	8.8	0.001	0.001	959
179	2377	YELLOW PERCH	33	16	52	3837	8.8	0.009	0.004	116
18	2377	YELLOW PICKEREL	11	8	52	3837	8.8	0.003	0.002	349
181	2451	POOLED	5	2	1	35	5.0	0.143	0.057	7
182	2451	COHO SALMON	4	1	1	35	5.0	0.114	0.029	9
183	2451	RAINBOW TROUT	1	1	1	35	5.0	0.029	0.029	35
184	2451	POOLED	260	259	23	493	3.4	0.528	0.526	2
185	2451	CHINOOK	1	1	23	493	3.4	0.002	0.002	493
186	2451	COHO SALMON	255	254	23	493	3.4	0.518	0.516	2
187	2451	RAINBOW TROUT	1	1	23	493	3.4	0.002	0.002	493
188	2451	YELLOW PICKEREL	3	3	23	493	3.4	0.006	0.006	164
189	2477	POOLED	82	77	1	41	9.0	2.025	1.901	0
19	2477	FRESHWATER DRUM	6	3	1	41	9.0	0.148	0.074	7
191	2477	SMALLMOUTH BASS	56	54	1	41	9.0	1.383	1.333	1
192	2477	YELLOW PERCH	20	20	1	41	9.0	0.494	0.494	2
193	2477	POOLED	34	31	1	40	8.0	0.850	0.775	1
194	2477	FRESHWATER DRUM	6	3	1	40	8.0	0.150	0.075	7
195	2477	SMALLMOUTH BASS	23	23	1	40	8.0	0.575	0.575	2
196	2477	YELLOW PERCH	5	5	1	40	8.0	0.125	0.125	8

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

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197	POOLED	POOLED	26	25	5	45	2.4	0.584	0.562	2
198	POOLED	COHO SALMON	25	24	5	45	2.4	0.562	0.539	2
199	POOLED	YELLOW PICKEREL	1	1	5	45	2.4	0.022	0.022	45
2..	212)	POOLED	26	25	5	45	2.4	0.584	0.562	2
2 1	212)	COHO SALMON	25	24	5	45	2.4	0.562	0.539	2
2.2	212)	YELLOW PICKEREL	1	1	5	45	2.4	0.022	0.022	45

NAME=POOLED MONTH=JUNE

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203	POOLED	POOLED	243	221	38	1331	5.3	0.183	0.151	5
204	POOLED	CHINOOK	4	4	38	1331	5.3	0.003	0.003	333
205	POOLED	COHO SALMON	40	37	38	1331	5.3	0.030	0.028	33
206	POOLED	FRESHWATER DRUM	13	3	38	1331	5.3	0.010	0.002	102
207	POOLED	LARGEMOUTH BASS	1	1	38	1331	5.3	0.001	0.001	1331
208	POOLED	RAINBOW TROUT	4	3	38	1331	5.3	0.003	0.002	333
209	POOLED	ROCK BASS	20	0	38	1331	5.3	0.015	0.000	67
21	POOLED	SMALLMOUTH BASS	129	122	38	1331	5.3	0.097	0.092	10
211	POOLED	WHITE BASS	2	1	38	1331	5.3	0.002	0.001	666
212	POOLED	YELLOW PICKEREL	30	30	38	1331	5.3	0.023	0.023	44
213	2115	POOLED	0	0	1	26	4.0	0.154	0.115	7
214	2115	RAINBOW TROUT	1	0	1	26	4.0	0.038	0.000	26
215	2115	YELLOW PICKEREL	3	3	1	26	4.0	0.115	0.115	9
216	2123	POOLED	14	8	4	91	4.3	0.154	0.088	7
217	2123	CHINOOK	0	0	4	91	4.3	0.000	0.000	.
218	2123	COHO SALMON	1	1	4	91	4.3	0.011	0.011	91
219	2123	FRESHWATER DRUM	5	0	4	91	4.3	0.055	0.000	18
22.	2123	WHITE BASS	1	0	4	91	4.3	0.011	0.000	91
221	2123	YELLOW PICKEREL	7	7	4	91	4.3	0.077	0.077	13
222	2123	POOLED	9	8	3	102	4.7	0.089	0.079	11
223	2123	COHO SALMON	7	7	3	102	4.7	0.069	0.069	15
224	2123	FRESHWATER DRUM	1	0	3	102	4.7	0.010	0.000	102
225	2123	RAINBOW TROUT	1	1	3	102	4.7	0.010	0.010	102
226	2123	YELLOW PICKEREL	0	0	3	102	4.7	0.000	0.000	.
227	2213	POOLED	1	1	1	24	4.0	0.042	0.042	24
228	2213	CHINOOK	1	1	1	24	4.0	0.042	0.042	24
229	2223	POOLED	0	0	1	30	5.0	0.000	0.000	.
23.	2223	COHO SALMON	0	0	1	30	5.0	0.000	0.000	.
231	2223	YELLOW PICKEREL	0	0	1	30	5.0	0.000	0.000	.
232	2242	POOLED	23	23	6	183	6.2	0.126	0.126	8
233	2242	CHINOOK	2	2	6	183	6.2	0.011	0.011	91
234	2242	COHO SALMON	8	8	6	183	6.2	0.044	0.044	23
235	2242	FRESHWATER DRUM	3	3	6	183	6.2	0.016	0.016	61
236	2242	YELLOW PICKEREL	10	10	6	183	6.2	0.055	0.055	18
237	2243	POOLED	10	10	2	160	8.0	0.063	0.063	16
238	2243	CHINOOK	0	0	2	160	8.0	0.000	0.000	.
239	2243	COHO SALMON	5	5	2	160	8.0	0.031	0.031	32
240	2243	YELLOW PICKEREL	5	5	2	160	8.0	0.031	0.031	32
241	2252	POOLED	0	0	1	100	8.0	0.000	0.000	.
242	2252	CHINOOK	0	0	1	100	8.0	0.000	0.000	.
243	2252	COHO SALMON	0	0	1	100	8.0	0.000	0.000	.
244	2252	YELLOW PICKEREL	0	0	1	100	8.0	0.000	0.000	.
245	2253	POOLED	1	1	1	10	5.0	0.100	0.100	10
246	2253	COHO SALMON	1	1	1	10	5.0	0.100	0.100	10
247	2264	POOLED	3	3	1	32	4.0	0.094	0.094	11
248	2264	COHO SALMON	3	3	1	32	4.0	0.094	0.094	11
249	2265	POOLED	0	0	1	9	2.0	0.000	0.000	.
25.	2265	CHINOOK	0	0	1	9	2.0	0.000	0.000	.
251	2265	COHO SALMON	0	0	1	9	2.0	0.000	0.000	.
252	2265	YELLOW PICKEREL	0	0	1	9	2.0	0.000	0.000	.
253	2266	POOLED	2	2	2	21	2.0	0.095	0.095	11
254	2266	COHO SALMON	2	2	2	21	2.0	0.095	0.095	11

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

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255	2257	POOLED	8	8	4	128	5.0	0.063	0.063	16
256	2267	COHO SALMON	5	5	4	128	5.0	0.039	0.039	26
257	2257	RAINBOW TROUT	1	1	4	128	5.0	0.008	0.008	128
258	2267	YELLOW PICKEREL	2	2	4	128	5.0	0.016	0.016	64
259	2268	POOLED	8	8	4	114	4.5	0.070	0.070	14
26.	2268	CHINOOK	1	1	4	114	4.5	0.009	0.009	114
261	2268	COHO SALMON	3	3	4	114	4.5	0.026	0.026	38
262	2268	WHITE BASS	1	1	4	114	4.5	0.009	0.009	114
263	2268	YELLOW PICKEREL	3	3	4	114	4.5	0.026	0.026	38
264	2277	POOLED	1	1	1	8	4.0	0.125	0.125	8
265	2277	COHO SALMON	1	1	1	8	4.0	0.125	0.125	8
266	2377	POOLED	154	123	4	259	9.0	0.595	0.475	2
267	2377	FRESHWATER DRUM	4	-	4	259	9.0	0.015	0.000	65
268	2377	LARGEMOUTH BASS	1	1	4	259	9.0	0.004	0.004	259
269	2377	ROCK BASS	20	0	4	259	9.0	0.077	0.000	13
27	2377	SMALLMOUTH BASS	129	122	4	259	9.0	0.499	0.471	2
271	2451	POOLED	5	2	1	35	5.0	0.143	0.057	7
272	2451	COHO SALMON	4	1	1	35	5.0	0.114	0.029	9
273	2451	RAINBOW TROUT	1	1	1	35	5.0	0.029	0.029	35

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

NAME=POOLED MONTH=JULY

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274	POOLED	POOLED	4583	3657	224	9356	6.2	0.490	0.391	2
275	POOLED	BROWN TROUT	1	1	224	9356	6.2	0.000	0.000	9356
276	POOLED	CHINOOK	13	12	224	9356	6.2	0.001	0.001	720
277	POOLED	COHO SALMON	1274	1242	224	9356	6.2	0.135	0.133	7
278	POOLED	FRESHWATER DRUM	392	164	224	9356	6.2	0.042	0.018	24
279	POOLED	LAKE TROUT	2	2	224	9356	6.2	0.000	0.000	4678
280	POOLED	NORTHERN PIKE	2	2	224	9356	6.2	0.000	0.000	4678
281	POOLED	PUMPKINSEED	12	6	224	9356	6.2	0.001	0.001	780
282	POOLED	RAINBOW TROUT	80	78	224	9356	6.2	0.009	0.008	117
283	POOLED	ROCK BASS	329	96	224	9356	6.2	0.035	0.010	28
284	POOLED	SMALLMOUTH BASS	2079	1777	224	9355	6.2	0.222	0.182	5
285	POOLED	WHITE BASS	60	44	224	9356	6.2	0.006	0.005	156
286	POOLED	YELLOW PERCH	81	69	224	9356	6.2	0.009	0.007	116
287	POOLED	YELLOW PICKEREL	258	234	224	9356	6.2	0.028	0.025	36
288	1195	POOLED	4	4	1	24	3.0	0.167	0.167	6
289	1196	COHO SALMON	1	1	1	24	3.0	0.042	0.042	24
290	1196	YELLOW PICKEREL	3	3	1	24	3.0	0.125	0.125	8
291	2115	POOLED	20	11	1	14	2.0	1.429	0.786	1
292	2115	FRESHWATER DRUM	15	8	1	14	2.0	1.143	0.571	1
293	2115	YELLOW PICKEREL	4	3	1	14	2.0	0.286	0.214	4
294	2117	POOLED	129	124	12	253	3.4	0.510	0.490	2
295	2117	COHO SALMON	110	105	12	253	3.4	0.435	0.415	2
296	2117	RAINBOW TROUT	19	19	12	253	3.4	0.075	0.075	13
297	2127	POOLED	55	35	3	122	5.3	0.459	0.295	2
298	2127	CHINOOK	1	1	3	122	5.3	0.008	0.008	122
299	2127	COHO SALMON	1	1	3	122	5.3	0.008	0.008	122
300	2127	FRESHWATER DRUM	20	10	3	122	5.3	0.164	0.082	6
301	2127	WHITE BASS	24	14	3	122	5.3	0.197	0.115	5
302	2127	YELLOW PICKEREL	10	10	3	122	5.3	0.082	0.082	12
303	2128	POOLED	87	62	18	385	4.9	0.226	0.161	4
304	2128	CHINOOK	0	0	18	385	4.9	0.000	0.000	.
305	2128	COHO SALMON	28	19	18	385	4.9	0.073	0.049	14
306	2128	FRESHWATER DRUM	5	0	1	385	4.9	0.013	0.000	77
307	2128	RAINBOW TROUT	3	3	18	385	4.9	0.008	0.008	128
308	2128	WHITE BASS	1	0	18	385	4.9	0.003	0.000	385
309	2128	YELLOW PICKEREL	50	40	18	385	4.9	0.130	0.104	8
31	2129	POOLED	67	58	6	286	7.0	0.234	0.203	4
311	2129	CHINOOK	1	0	6	286	7.0	0.003	0.000	286
312	2129	COHO SALMON	49	49	6	286	7.0	0.168	0.168	6
313	2129	FRESHWATER DRUM	6	0	6	286	7.0	0.021	0.000	48
314	2129	RAINBOW TROUT	2	2	6	286	7.0	0.007	0.007	143
315	2129	WHITE BASS	2	0	6	286	7.0	0.007	0.000	143
316	2129	YELLOW PICKEREL	9	8	6	286	7.0	0.029	0.028	36
317	2214	POOLED	2	0	1	13	2.0	0.154	0.000	7
318	2214	YELLOW PICKEREL	2	0	1	13	2.0	0.154	0.000	7
319	2223	POOLED	39	35	3	97	4.3	0.402	0.361	2
320	2223	COHO SALMON	35	35	3	97	4.3	0.361	0.361	3
321	2223	FRESHWATER DRUM	4	0	3	97	4.3	0.041	0.000	24
322	2224	POOLED	65	59	4	196	7.0	0.337	0.301	3
323	2224	COHO SALMON	21	21	4	196	7.0	0.107	0.107	9
324	2224	FRESHWATER DRUM	5	4	4	196	7.0	0.031	0.020	33
325	2224	RAINBOW TROUT	1	1	4	196	7.0	0.005	0.005	196

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

NAME=POOLED MONTH=JULY

DIS	GRID	SPECIES	NUMBER CAUGHT	NUMBER KEPT	NUMBER OF TRIPS	EFFORT (ROD-HOURS)	RODS PER TRIP	CAUGHT PER ROD-HOUR	KEPT PER ROD-HOUR	ROD-HOURS PER FISH CAUGHT
326	2224	WHITE BASS	8	8	4	196	7.0	0.041	0.041	25
327	2224	YELLOW PICKEREL	30	25	4	196	7.0	0.153	0.128	7
328	2230	POOLED	227	214	25	747	4.6	0.304	0.287	3
329	2230	CHINOOK	5	5	26	747	4.6	0.007	0.007	149
330	2230	COHO SALMON	179	171	25	747	4.6	0.240	0.228	4
331	2231	FRESHWATER DRUM	4	2	25	747	4.6	0.005	0.003	187
332	2231	RAINBOW TROUT	18	16	25	747	4.6	0.024	0.021	41
333	2230	WHITE BASS	1	1	26	747	4.6	0.001	0.001	747
334	2231	YELLOW PICKEREL	25	23	25	747	4.6	0.027	0.027	37
335	2231	POOLED	21	21	2	84	6.0	0.250	0.250	4
336	2231	COHO SALMON	14	18	2	84	6.0	0.214	0.214	5
337	2231	YELLOW PICKEREL	3	3	2	84	6.0	0.036	0.036	28
338	2237	POOLED	391	325	7	410	9.0	0.955	0.794	1
339	2237	FRESHWATER DRUM	76	39	7	410	9.0	0.186	0.093	5
34	2237	NORTHERN PIKE	1	1	7	410	9.0	0.002	0.002	410
341	2237	PUMPKINSEED	12	6	7	410	9.0	0.029	0.015	34
342	2237	ROCK BASS	45	25	7	410	9.0	0.110	0.061	9
343	2237	SMALLMOUTH BASS	203	201	7	410	9.0	0.496	0.491	2
344	2237	YELLOW PERCH	54	54	7	410	9.0	0.132	0.132	8
345	2240	POOLED	142	139	15	402	3.9	0.353	0.346	3
346	2240	CHINOOK	2	2	15	402	3.9	0.005	0.005	201
347	2240	COHO SALMON	124	121	15	402	3.9	0.308	0.301	3
348	2240	RAINBOW TROUT	12	12	15	402	3.9	0.025	0.025	40
349	2240	YELLOW PICKEREL	6	6	15	402	3.9	0.015	0.015	67
350	2241	POOLED	96	73	5	179	5.2	0.536	0.408	2
351	2241	CHINOOK	1	1	5	179	5.2	0.006	0.006	179
352	2241	COHO SALMON	32	32	5	179	5.2	0.179	0.179	6
353	2241	FRESHWATER DRUM	36	18	5	179	5.2	0.201	0.101	5
354	2241	RAINBOW TROUT	11	11	5	179	5.2	0.061	0.061	16
355	2241	WHITE BASS	5	3	5	179	5.2	0.034	0.017	30
356	2241	YELLOW PICKEREL	10	8	5	179	5.2	0.056	0.045	18
357	2242	POOLED	12	12	1	72	8.0	0.139	0.139	7
358	2242	COHO SALMON	10	10	1	72	8.0	0.139	0.139	7
359	2251	POOLED	35	23	1	42	6.0	0.833	0.548	1
360	2251	COHO SALMON	6	6	1	42	6.0	0.143	0.143	7
361	2251	FRESHWATER DRUM	24	12	1	42	6.0	0.571	0.286	2
362	2251	RAINBOW TROUT	2	2	1	42	6.0	0.048	0.048	21
363	2251	YELLOW PICKEREL	3	3	1	42	6.0	0.071	0.071	14
364	2252	POOLED	203	198	13	579	6.8	0.351	0.342	3
365	2252	COHO SALMON	182	177	13	579	6.8	0.315	0.306	3
366	2252	LAKE TROUT	1	1	13	579	6.8	0.002	0.002	579
367	2252	RAINBOW TROUT	3	3	13	579	6.8	0.005	0.005	193
368	2252	YELLOW PICKEREL	17	17	13	579	6.8	0.029	0.029	34
369	2253	POOLED	35	36	4	152	6.8	0.238	0.238	4
370	2253	CHINOOK	2	2	4	152	6.8	0.013	0.013	76
371	2253	COHO SALMON	28	28	4	152	6.8	0.185	0.185	5
372	2253	FRESHWATER DRUM	1	1	4	152	6.8	0.007	0.007	152
373	2253	WHITE BASS	4	4	4	152	6.8	0.026	0.026	38
374	2253	YELLOW PICKEREL	1	1	4	152	6.8	0.007	0.007	152
375	2254	POOLED	14	14	1	60	8.0	0.233	0.233	4
376	2254	COHO SALMON	5	5	1	60	8.0	0.083	0.083	12
377	2254	RAINBOW TROUT	1	1	1	60	8.0	0.017	0.017	60

NAME=POOLED MONTH=JULY

OBS	GRID	SPECIES	NUMBER CAUGHT	NUMBER KEPT	NUMBER OF TRIPS	EFFORT (ROD-HOURS)	RODS PER TRIP	CAUGHT PER ROD-HOUR	KEPT PER ROD-HOUR	ROD-HOURS PER FISH CAUGHT
378	2254	YELLOW PICKEREL	8	8	1	60	8.0	0.133	0.133	8
379	2252	POOLED	22	14	1	40	5.0	0.550	0.350	2
38.	2252	COHO SALMON	3	3	1	40	5.0	0.075	0.075	13
381	2262	FRESHWATER DRUM	16	8	1	40	5.0	0.400	0.200	3
382	2262	RAINBOW TROUT	1	1	1	40	5.0	0.025	0.025	40
383	2262	YELLOW PICKEREL	2	2	1	40	5.0	0.050	0.050	20
384	2264	POOLED	247	246	13	561	6.8	0.369	0.368	3
385	2264	COHO SALMON	162	162	13	561	6.8	0.289	0.289	3
386	2264	FRESHWATER DRUM	2	1	13	561	6.8	0.004	0.002	280
387	2264	LAKE TROUT	1	1	13	561	6.8	0.002	0.002	561
388	2264	RAINBOW TROUT	4	4	13	561	6.8	0.007	0.007	140
389	2264	WHITE BASS	6	6	13	561	6.8	0.011	0.011	93
390	2264	YELLOW PICKEREL	32	32	13	561	6.8	0.057	0.057	18
391	2265	POOLED	30	29	6	202	5.5	0.149	0.144	7
392	2265	COHO SALMON	24	24	6	202	5.5	0.119	0.119	8
393	2265	RAINBOW TROUT	3	3	6	202	5.5	0.015	0.015	67
394	2265	YELLOW PICKEREL	3	2	6	202	5.5	0.015	0.010	67
395	2265	POOLED	9	9	2	72	6.0	0.125	0.125	8
396	2265	COHO SALMON	6	6	2	72	6.0	0.083	0.083	12
397	2265	YELLOW PICKEREL	3	3	2	72	6.0	0.042	0.042	24
398	2257	POOLED	25	26	6	305	6.8	0.085	0.085	12
399	2257	COHO SALMON	14	14	6	305	6.8	0.046	0.046	22
400	2267	YELLOW PICKEREL	12	12	6	305	6.8	0.039	0.039	25
401	2263	POOLED	15	15	3	114	6.7	0.132	0.132	8
402	2263	COHO SALMON	12	12	3	114	6.7	0.105	0.105	10
403	2263	YELLOW PICKEREL	3	3	3	114	6.7	0.026	0.026	38
404	2263	POOLED	5	5	1	24	4.0	0.208	0.208	5
405	2263	COHO SALMON	5	5	1	24	4.0	0.208	0.208	5
406	2277	POOLED	23	23	4	174	5.5	0.115	0.115	9
407	2277	BROWN TROUT	1	1	4	174	5.5	0.006	0.006	174
408	2277	COHO SALMON	9	9	4	174	5.5	0.052	0.052	19
409	2277	RAINBOW TROUT	1	1	4	174	5.5	0.006	0.006	174
410	2277	YELLOW PICKEREL	9	9	4	174	5.5	0.052	0.052	19
411	2273	POOLED	4	4	1	16	4.0	0.250	0.250	4
412	2273	FRESHWATER DRUM	1	1	1	16	4.0	0.063	0.063	16
413	2273	WHITE BASS	3	3	1	16	4.0	0.188	0.188	5
414	2279	POOLED	8	8	1	30	5.0	0.267	0.267	4
415	2279	FRESHWATER DRUM	2	2	1	30	5.0	0.067	0.067	15
416	2279	WHITE BASS	1	1	1	30	5.0	0.033	0.033	30
417	2279	YELLOW PICKEREL	5	5	1	30	5.0	0.167	0.167	6
418	2377	POOLED	2376	1554	52	3281	9.0	0.724	0.507	1
419	2377	FRESHWATER DRUM	173	59	52	3281	9.0	0.053	0.018	19
420	2377	NORTHERN PIKE	1	1	52	3281	9.0	0.000	0.000	3281
421	2377	ROCK BASS	284	71	52	3281	9.0	0.087	0.022	12
422	2377	SMALLMOUTH BASS	1876	1506	52	3281	9.0	0.572	0.459	2
423	2377	WHITE BASS	4	4	52	3281	9.0	0.001	0.001	820
424	2377	YELLOW PERCH	27	15	52	3281	9.0	0.008	0.005	122
425	2377	YELLOW PICKEREL	11	8	52	3281	9.0	0.003	0.002	298
426	2461	POOLED	216	215	18	423	3.7	0.511	0.508	2
427	2461	CHINOOK	1	1	18	423	3.7	0.002	0.002	423
428	2461	COHO SALMON	211	210	18	423	3.7	0.499	0.496	2
429	2451	RAINBOW TROUT	1	1	19	423	3.7	0.002	0.002	423

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

NAME=POOLED MONTH=JULY

OBS	GRID	SPECIES	NUMBER CAUGHT	NUMBER KEPT	NUMBER OF TRIPS	EFFORT (ROD-HOURS)	RODS PER TRIP	CAUGHT PER ROD-HOUR	KEPT PER ROD-HOUR	ROD-HOURS PER FISH CAUGHT
43.	2461	YELLOW PICKEREL	3	3	19	423	3.7	0.007	0.007	141

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

NAME=POOLED MONTH=AUGUST

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431	POOLED	POOLED	970	878	59	1873	5.3	0.518	0.469	2
432	POOLED	CHINOOK	1	1	59	1873	5.3	0.001	0.001	1873
433	POOLED	COHO SALMON	419	409	59	1873	5.3	0.224	0.218	4
434	POOLED	FRESHWATER DRUM	39	11	59	1873	5.3	0.021	0.006	48
435	POOLED	NORTHERN PIKE	1	1	59	1873	5.3	0.001	0.001	1873
436	POOLED	PUMPKINSEED	50	25	59	1873	5.3	0.027	0.013	37
437	POOLED	RAINBOW TROUT	71	70	59	1873	5.3	0.038	0.037	26
438	POOLED	ROCK BASS	26	7	59	1873	5.3	0.014	0.004	72
439	POOLED	SMALLMOUTH BASS	121	119	59	1873	5.3	0.065	0.064	15
44.	POOLED	WHITE BASS	27	27	59	1873	5.3	0.014	0.014	69
441	POOLED	YELLOW PERCH	25	25	59	1873	5.3	0.013	0.013	75
442	POOLED	YELLOW PICKEREL	190	183	59	1873	5.3	0.101	0.098	10
443	2113	POOLED	9	9	1	28	4.0	0.321	0.321	3
444	2113	COHO SALMON	6	6	1	28	4.0	0.214	0.214	5
445	2113	RAINBOW TROUT	3	3	1	28	4.0	0.107	0.107	9
446	2123	POOLED	3	3	1	11	7.0	0.286	0.286	4
447	2123	COHO SALMON	2	2	1	11	7.0	0.190	0.190	5
448	2123	YELLOW PICKEREL	1	1	1	11	7.0	0.095	0.095	11
449	2133	POOLED	16	16	1	28	4.0	0.571	0.571	2
45.	2133	COHO SALMON	13	13	1	28	4.0	0.464	0.464	2
451	2133	RAINBOW TROUT	3	3	1	28	4.0	0.107	0.107	9
452	2221	POOLED	104	104	8	215	4.4	0.484	0.484	2
453	2221	CHINOOK	1	1	8	215	4.4	0.005	0.005	215
454	2223	COHO SALMON	76	76	8	215	4.4	0.325	0.326	3
455	2223	RAINBOW TROUT	31	31	8	215	4.4	0.144	0.144	7
456	222.	YELLOW PICKEREL	2	2	8	215	4.4	0.009	0.009	108
457	2231	POOLED	184	167	19	510	4.2	0.361	0.328	3
458	2233	COHO SALMON	141	137	19	510	4.2	0.277	0.269	4
459	2233	FRESHWATER DRUM	12	9	19	510	4.2	0.024	0.000	42
46.	2233	RAINBOW TROUT	21	20	19	510	4.2	0.041	0.039	24
461	2233	WHITE BASS	1	1	19	510	4.2	0.002	0.002	510
462	2233	YELLOW PICKEREL	9	9	19	510	4.2	0.018	0.018	57
463	2241	POOLED	17	17	1	48	6.0	0.354	0.354	3
464	2241	COHO SALMON	15	15	1	48	6.0	0.313	0.313	3
465	2241	YELLOW PICKEREL	2	2	1	48	6.0	0.042	0.042	24
466	2242	POOLED	16	16	2	46	7.5	0.352	0.352	3
467	2242	COHO SALMON	6	6	2	46	7.5	0.132	0.132	8
468	2242	WHITE BASS	3	3	2	46	7.5	0.066	0.066	15
469	2242	YELLOW PICKEREL	7	7	2	46	7.5	0.154	0.154	7
47	2243	POOLED	78	76	3	117	6.3	0.670	0.652	1
471	2243	COHO SALMON	21	19	3	117	6.3	0.180	0.163	6
472	2243	RAINBOW TROUT	4	4	3	117	6.3	0.034	0.034	29
473	2243	WHITE BASS	13	13	3	117	6.3	0.112	0.112	9
474	2243	YELLOW PICKEREL	40	40	3	117	6.3	0.343	0.343	3
475	2252	POOLED	249	238	12	531	7.2	0.469	0.449	2
476	2252	COHO SALMON	101	97	12	531	7.2	0.190	0.183	5
477	2252	RAINBOW TROUT	9	9	12	531	7.2	0.017	0.017	59
478	2252	WHITE BASS	10	10	12	531	7.2	0.019	0.019	53
479	2252	YELLOW PICKEREL	129	122	12	531	7.2	0.243	0.230	4
48.	2377	POOLED	134	80	4	191	7.3	0.702	0.419	1
481	2377	FRESHWATER DRUM	15	5	4	191	7.3	0.079	0.026	13
482	2377	NORTHERN PIKE	1	1	4	191	7.3	0.005	0.005	191

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

NAME=POOLED MONTH=AUGUST

OBS	GRID	SPECIES	NUMBER CAUGHT	NUMBER KEPT	NUMBER OF TRIPS	EFFORT (ROD-HOURS)	RODS PER TRIP	CAUGHT PER ROD-HOUR	KEPT PER ROD-HOUR	ROD-HOURS PER FISH CAUGHT
483	2377	PUMPKINSEED	5	25	4	191	7.3	0.262	0.131	4
484	2377	ROCK BASS	26	7	4	191	7.3	0.136	0.037	7
485	2377	SMALLMOUTH BASS	42	42	4	191	7.3	0.220	0.220	5
486	2461	POOLED	44	44	5	70	2.6	0.633	0.633	2
487	2451	COHO SALMON	44	44	5	70	2.6	0.633	0.633	2
488	2471	POOLED	92	77	1	41	9.0	2.025	1.901	0
489	2471	FRESHWATER DRUM	6	3	1	41	9.0	0.149	0.074	7
490	2471	SMALLMOUTH BASS	56	54	1	41	9.0	1.383	1.333	1
491	2471	YELLOW PERCH	21	20	1	41	9.0	0.494	0.494	2
492	2477	POOLED	34	31	1	40	8.0	0.850	0.775	1
493	2477	FRESHWATER DRUM	6	3	1	40	8.0	0.150	0.075	7
494	2477	SMALLMOUTH BASS	23	23	1	40	8.0	0.575	0.575	2
495	2477	YELLOW PERCH	5	5	1	40	8.0	0.125	0.125	8

1984 CHARTER-BOAT DIARY PROGRAM FOR LAKE ERIE

NAME=POOLED MONTH=SEPTEMBER

OBS	GRID	SPECIES	NUMBER CAUGHT	NUMBER KEPT	NUMBER OF TRIPS	EFFORT (ROD-HOURS)	RODS PER TRIP	CAUGHT PER ROD-HOUR	KEPT PER ROD-HOUR	ROD-HOURS PER FISH CAUGHT
496	POOLED	POOLED	28	11	5	178	5.2	0.157	0.062	6
497	POOLED	CHINOOK	1	1	5	178	5.2	0.006	0.006	178
498	POOLED	COHO SALMON	4	4	5	178	5.2	0.022	0.022	45
499	POOLED	NORTHERN PIKE	2	2	5	178	5.2	0.011	0.011	89
500	POOLED	ROCK BASS	12	0	5	178	5.2	0.067	0.000	15
501	POOLED	SMALLMOUTH BASS	2	2	5	178	5.2	0.011	0.011	89
502	POOLED	YELLOW PERCH	6	1	5	178	5.2	0.034	0.006	30
503	POOLED	YELLOW PICKEREL	1	1	5	178	5.2	0.006	0.006	178
504	2123	POOLED	1	1	1	36	6.0	0.028	0.028	36
505	2123	COHO SALMON	1	1	1	36	6.0	0.028	0.028	36
506	2233	POOLED	0	0	1	36	6.0	0.000	0.000	.
507	2233	CHINOOK	0	0	1	36	6.0	0.000	0.000	.
508	2233	COHO SALMON	0	0	1	36	6.0	0.000	0.000	.
509	2233	YELLOW PICKEREL	0	0	1	36	6.0	0.000	0.000	.
510	2252	POOLED	5	5	1	0	0.0	.	.	.
511	2252	CHINOOK	1	1	1	0	0.0	.	.	.
512	2252	COHO SALMON	3	3	1	0	0.0	.	.	.
513	2252	YELLOW PICKEREL	1	1	1	0	0.0	.	.	.
514	2377	POOLED	22	5	2	106	7.0	0.208	0.047	5
515	2377	NORTHERN PIKE	2	2	2	106	7.0	0.019	0.019	53
516	2377	ROCK BASS	12	0	2	106	7.0	0.113	0.000	9
517	2377	SMALLMOUTH BASS	2	2	2	106	7.0	0.019	0.019	53
518	2377	YELLOW PERCH	6	1	2	106	7.0	0.057	0.009	18

INSTRUCTIONS

The Ontario Ministry of Natural Resources would like to thank you for your cooperation in completing this charter boat fisherman's diary. The information that you are providing on the fish caught by your boat will help us evaluate the success of our fisheries management programme. Please don't forget to tell us about those trips when no fish are landed so we can get a true picture of the quality of fishing in your area. Information on fishing depths, temperatures, weather and lures will help charter boat operators improve their techniques for locating fish at various times of year.

Below you will find an explanation of the information that is required. Please fill in a page for each fishing trip or charter. If more space is needed to record fish caught use the next page and indicate that it is the same trip.

Date: Always fill in to indicate a fishing trip or charter. If more room is needed to record number of fish go to the next page and indicate same trip number.

Trip Number: If more than one trip is made in the day, number them here.

A) Fishing Activity:

Area Fished: Enter four digit area code from grid maps found on inside front and back covers

Time fishing started: Record time lines entered water (include a.m. or p.m.)

Time fishing ended: Record time lines removed from water (include a.m or p.m.)

Number of lines: Record number of lines fishing.

Check here if no fish taken: If no fish were caught, check here.

B) Fishing Conditions:

Surface water temperature: Indicate surface water temperature at start of fishing trip in °. Circle units (farhenheit or celcius)

Depth of Thermocline: Indicate themocline depth in ft.

Wind speed and direction: Indicate wind speed (nil, 5, 10, 15, 20 mph, etc.) and direction from which wind is blowing.

Cloud cover: Classify as: sunny, partly overcast, overcast.

Precipitation: Classify as: none, light rain, heavy rain, fog.

N.B.: The above sections should be completed whether fish are caught or not.

C) Fish Caught **D) Salmonid Samples**

Species: Enter species name for each fish caught, whether kept or released. Do not include those fish which are lost before being brought on board.

No. Kept/No. Released: Enter numbers of fish of each species kept or released.

Lure/Bait: Indicate type and colour of lure or bait.

Depth-total: Indicate water depth to the bottom in ft.

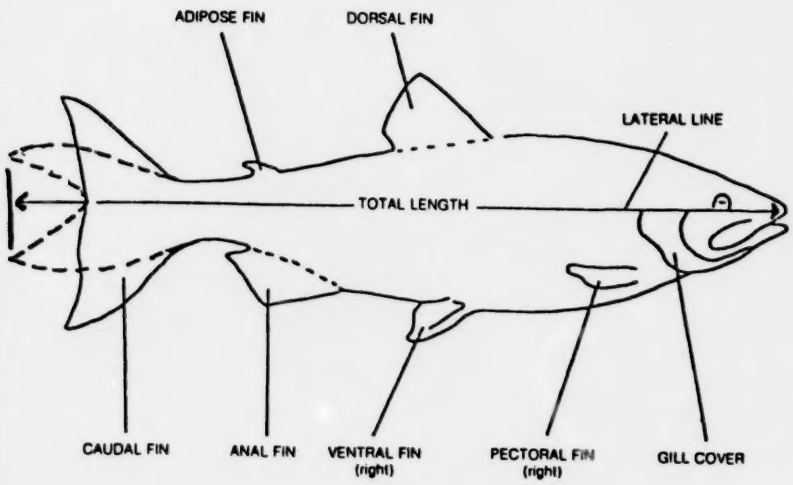
Depth-fish: Indicate water depth at which fish was caught.

Total Length: Record length in inches for each fish as shown in the diagram on the next page.

Total Weight: Enter weight in pounds and ounces when available.

Fin clip: Record the fin clip in this column according to the abbreviations listed below the table. Fin names and locations are illustrated on next page.

RIGHT SIDE OF A SALMONID



Fin Clips: In order to tell which type of fin clip a fish has, point the fish as if it were swimming in the direction you are facing. The right and left sides of the fish now correspond to your right and left sides. Some fish have more than one fin clip so make sure you check all five fins and record all those clipped. Some fin clips may be hard to recognize if they have grown back in. To make sure, compare the two paired fins (ventrals and pectorals). If one fin is shorter, narrower, crooked or shows fracture marks then it is considered to be a fin clip and should be recorded.

PLEASE COMPLETE SECTIONS A & B FOR ALL TRIPS WHETHER FISH ARE CAUGHT OR NOT.

Date: June 4/84

Trip Number: 2

A) Fishing Activity:

Area fished: 2129

Time fishing started: 8:30 AM

Time fishing ended: 2:00 PM

Number of lines: 4

Check here if no fish taken: _____

B) Fishing Conditions:

Surface water temperature: 14 °F/(C)

Depth of thermocline: 30 ft.

Wind speed & direction: E-15 mph

Cloud cover: partly overcast

Precipitation: none

C) Fish Caught

	Species	No. Kept	No. Released	Lure/Bait	Depth (ft.) Total	Depth (ft.) Fish	Comments*
1	Rainbow trout	2	1	silver rapala	50	28	1 lamprey wound
2	Coho salmon	1	0	silver rapala	50	28	
3	Walleye	1	0	silver rapala	50	28	
4							
5							
6							

SAMPLE

D) Salmonid Samples (Optional)

	Species	Total Length (in.)	Total Weight (lb./oz.)	Fin Clip	Comments*
1	Rainbow trout	23	3	AD	lamprey wound
2					
3					
4					
5					

Clip Abbreviations: RV = Right Ventral, RP = Right Pectoral, AD = Adipose, LV = Left Ventral, LP = Left Pectoral, NC = no clip, 0 = Other

* Record the number of fish observed with a single lamprey wound or any other relevant information

PLEASE COMPLETE SECTIONS A & B FOR ALL TRIPS WHETHER FISH ARE CAUGHT OR NOT.

Date: _____

Trip Number: _____

A) Fishing Activity:

Area fished: _____

Time fishing started: _____

Time fishing ended: _____

Number of lines: _____

Check here if no fish taken: _____

B) Fishing Conditions:

Surface water temperature: _____ °F/C

Depth of thermocline: _____ ft.

Wind speed & direction: _____

Cloud cover: _____

Precipitation: _____

C) Fish Caught

	Species	No. Kept	No. Released	Lure/Bait	Depth (ft.) Total	Depth (ft.) Fish	Comments*
1							
2							
3							
4							
5							
6							

D) Salmonid Samples (Optional)

	Species	Total Length (in.)	Total Weight (lb./oz.)	Fin Clip	Comments*
1					
2					
3					
4					
5					

Clip Abbreviations: RV = Right Ventral, RP = Right Pectoral, AD = Adipose, LV = Left Ventral, LP = Left Pectoral, NC = no clip, 0 = Other

* Record the number of fish observed with a single lamprey wound or any other relevant information

Appendix B.2. Required angler diary trip information with an example of a completed form.

Appendix C.1 Comparative angler success rates in the Central Basin and Inner Long Point Bay Charter Boat Fisheries

Central Basin

Charter Boat Operator	Trips (number)	Number of Coho Salmon caught/rod-hour	Number of Walleye caught/rod-hour
1	57	0.176	0.112
2	30	0.347	0.004
3	18	0.110	0.035
4	23	0.262	0.019
5	31	0.225	0.071
6	10	0.237	0.038
7	13	0.136	0.074
8	24	0.166	0.026
9	25	0.145	0.025
		$\bar{x}$ = 0.200	0.045
		S = 0.074	0.034
		Coefficient of variation = 37%	76%

Inner Long Point Bay

Charter Boat Operator	Trips (number)	Number of Smallmouth bass caught/rod-hour
1	15	0.554
2	14	0.579
3	19	0.606
4	23	0.456
		$\bar{x}$ = 0.549
		S = 0.065
		Coefficient of variation = 12%

Appendix C.2 Catch and effort statistics derived from the roving on-water creel survey on Inner Long Point Bay during July and August, 1984 (LEFAU 1984).

Observed number of smallmouth bass caught = 1,899

Observed angling effort (rod-hours) = 6,640

Number of bass caught/rod-hour = 0.286